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JUN 21 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/367,794

DATE: 05/14/2001
TIME: 13:05:02

Input Set : A:\181481-3.app
Output Set: N:\CRF3\05142001\I367794.raw

ENTERED

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Dime, David S.
7 Backx, Peter
8 Kimmeldirk, Klaus

10 (ii) TITLE OF INVENTION: Site-Specific Drug Delivery

12 (iii) NUMBER OF SEQUENCES: 9

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
16 (B) STREET: Two Embarcadero Center, Eighth Floor
17 (C) CITY: San Francisco
18 (D) STATE: California
19 (E) COUNTRY: USA
20 (F) ZIP: 94111-3834

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

28 (vi) CURRENT APPLICATION DATA:

C--> 29 (A) APPLICATION NUMBER: US/09/367,794
C--> 30 (B) FILING DATE: 19-Aug-1999
31 (C) CLASSIFICATION:

41 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: WO PCT/CA98/00133
35 (B) FILING DATE: 19-FEB-1998
38 (A) APPLICATION NUMBER: US 60/066,635
39 (B) FILING DATE: 11-NOV-1997
42 (A) APPLICATION NUMBER: US 60/042,911
43 (B) FILING DATE: 20-FEB-1997

45 (viii) ATTORNEY/AGENT INFORMATION:

46 (A) NAME: Snyder, Joseph R.
47 (B) REGISTRATION NUMBER: 39,381
48 (C) REFERENCE/DOCKET NUMBER: 018148-000130US

50 (ix) TELECOMMUNICATION INFORMATION:

51 (A) TELEPHONE: (415) 576-0200
52 (B) TELEFAX: (415) 576-0300

55 (2) INFORMATION FOR SEQ ID NO: 1:

57 (i) SEQUENCE CHARACTERISTICS:

58 (A) LENGTH: 33 amino acids
59 (B) TYPE: amino acid
60 (C) STRANDEDNESS:
61 (D) TOPOLOGY: linear

63 (ii) MOLECULE TYPE: peptide

66 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

68 Gly Thr Asn Gly Ser Val Glu Ala Asp Gly Leu Val Trp Glu Ser Leu
69 1 5 10 15

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71   Asp Leu Tyr Leu Ser Asp Pro Glu Asn Tyr Leu Leu Lys Asn Gly Thr
72           20           25           30
74   Ser
77 (2) INFORMATION FOR SEQ ID NO: 2:
79   (i) SEQUENCE CHARACTERISTICS:
80       (A) LENGTH: 211 amino acids
81       (B) TYPE: amino acid
82       (C) STRANDEDNESS:
83       (D) TOPOLOGY: linear
85   (ii) MOLECULE TYPE: peptide
88   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
90   Thr Ile Arg Gly Val Asp Thr Val Ser Arg Ser Ser Leu Glu Met Ser
91       1           5           10           15
93   Pro Leu Ala Pro Val Asn Ser His Glu Arg Arg Ser Lys Arg Arg Lys
94           20           25           30
96   Arg Met Ser Ser Gly Thr Glu Glu Cys Gly Glu Asp Arg Leu Pro Lys
97       35           40           45
99   Ser Asp Ser Glu Asp Gly Pro Arg Ala Met Asn His Leu Ser Leu Thr
100      50           55           60
102   Arg Gly Leu Ser Arg Thr Ser Met Lys Pro Arg Ser Ser Arg Gly Ser
103      65           70           75           80
105   Ile Phe Thr Phe Arg Arg Arg Asp Leu Gly Ser Glu Ala Asp Phe Ala
106           85           90           95
108   Asp Asp Glu Asn Ser Thr Ala Arg Glu Ser Glu Ser His His Thr Ser
109           100          105          110
111   Leu Leu Val Pro Trp Pro Leu Arg Arg Thr Ser Ala Gln Gly Gln Pro
112           115          120          125
114   Ser Pro Gly Thr Ser Ala Pro Gly His Ala Leu His Gly Lys Lys Asn
115           130          135          140
117   Ser Thr Val Asp Cys Asn Gly Val Val Ser Leu Leu Gly Ala Gly Asp
118           145          150          155          160
120   Pro Glu Ala Thr Ser Pro Gly Ser His Leu Leu Arg Pro Val Met Leu
121           165          170          175
123   Glu His Pro Pro Asp Thr Thr Thr Pro Ser Glu Glu Pro Gly Gly Pro
124           180          185          190
126   Gln Met Leu Thr Ser Gln Ala Pro Cys Val Asp Gly Phe Glu Glu Pro
127           195          200          205
129   Gly Ala Arg
130           210
133 (2) INFORMATION FOR SEQ ID NO: 3:
135   (i) SEQUENCE CHARACTERISTICS:
136       (A) LENGTH: 39 amino acids
137       (B) TYPE: amino acid
138       (C) STRANDEDNESS:
139       (D) TOPOLOGY: linear
141   (ii) MOLECULE TYPE: peptide
144   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
146   Trp Tyr Gly Asn Asp Thr Trp Tyr Gly Asn Glu Met Trp Tyr Gly Asn
147       1           5           10           15

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149 Asp Ser Trp Tyr Ala Asn Asp Thr Trp Asn Ser His Ala Ser Trp Ala
 150 20 25 30
 152 Thr Asn Asp Thr Phe Asp Trp
 153 35

156 (2) INFORMATION FOR SEQ ID NO: 4:

158 (i) SEQUENCE CHARACTERISTICS:

159 (A) LENGTH: 55 amino acids

160 (B) TYPE: amino acid

161 (C) STRANDEDNESS:

162 (D) TOPOLOGY: linear

164 (ii) MOLECULE TYPE: peptide

167 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

169 Glu Glu Leu Glu Lys Ala Lys Ala Ala Gln Ala Leu Glu Gly Gly Glu

170 1 5 10 15

172 Ala Asp Gly Asp Pro Ala His Gly Lys Asp Cys Asn Gly Ser Leu Asp

173 20 25 30

175 Thr Ser Gln Gly Glu Lys Gly Ala Pro Arg Gln Ser Gly Ser Gly Asp

176 35 40 45

178 Ser Gly Ile Ser Asp Ala Met

179 50 55

182 (2) INFORMATION FOR SEQ ID NO: 5:

184 (i) SEQUENCE CHARACTERISTICS:

185 (A) LENGTH: 20 amino acids

186 (B) TYPE: amino acid

187 (C) STRANDEDNESS:

188 (D) TOPOLOGY: linear

190 (ii) MOLECULE TYPE: peptide

193 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

195 Met Gln Asp Ala Met Gly Tyr Glu Leu Pro Trp Val Tyr Phe Val Ser

196 1 5 10 15

198 Leu Val Ile Phe

199 20

202 (2) INFORMATION FOR SEQ ID NO: 6:

204 (i) SEQUENCE CHARACTERISTICS:

205 (A) LENGTH: 20 amino acids

206 (B) TYPE: amino acid

207 (C) STRANDEDNESS:

208 (D) TOPOLOGY: linear

210 (ii) MOLECULE TYPE: peptide

213 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

215 Val Asn Asp Ala Val Gly Arg Asp Trp Pro Trp Ile Tyr Phe Val Thr

216 1 5 10 15

218 Leu Ile Ile Ile

219 20

222 (2) INFORMATION FOR SEQ ID NO: 7:

224 (i) SEQUENCE CHARACTERISTICS:

225 (A) LENGTH: 30 amino acids

226 (B) TYPE: amino acid

227 (C) STRANDEDNESS:

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228      (D) TOPOLOGY: linear
230      (ii) MOLECULE TYPE: peptide
233      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
235      Lys His Tyr Phe Cys Asp Ala Trp Asn Thr Phe Asp Ala Leu Ile Val
236      1          5          10          15
238      Val Gly Ser Ile Val Asp Ile Ala Ile Thr Glu Val His Pro
239      20          25          30
242 (2) INFORMATION FOR SEQ ID NO: 8:
244      (i) SEQUENCE CHARACTERISTICS:
245          (A) LENGTH: 30 amino acids
246          (B) TYPE: amino acid
247          (C) STRANDEDNESS:
248          (D) TOPOLOGY: linear
250      (ii) MOLECULE TYPE: peptide
253      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
255      Lys Gly Tyr Phe Ser Asp Pro Trp Asn Val Phe Asp Phe Leu Ile Val
256      1          5          10          15
258      Ile Gly Ser Ile Ile Asp Val Ile Leu Ser Glu Thr Asn Pro
259      20          25          30
262 (2) INFORMATION FOR SEQ ID NO: 9:
264      (i) SEQUENCE CHARACTERISTICS:
265          (A) LENGTH: 25 amino acids
266          (B) TYPE: amino acid
267          (C) STRANDEDNESS:
268          (D) TOPOLOGY: linear
270      (ii) MOLECULE TYPE: peptide
273      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
275      Arg Gly Thr Pro Ala Gly Leu His Ala Gln Lys Lys Gly Lys Phe Ala
276      1          5          10          15
278      Trp Phe Ser His Ser Thr Glu Thr His
279      20          25

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/367,794

DATE: 05/14/2001

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Input Set : A:\181481-3.app

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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]